

FIGURE 1

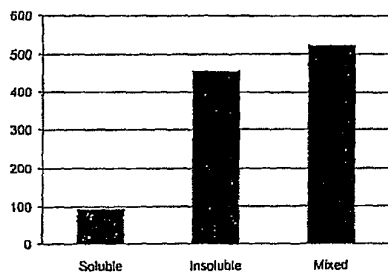
Known Heat Shock-Induced Genes:

<i>ibpA</i>	CAAAAAGTCCGCTGATAAGGCTTGAAAGTTCATTT-----CCAGACCCCATTTTACATCGTAGCC	SEQ.ID.NO.: 23
<i>yrfG</i>	ATTACGGCCTATTATGAAAGCTGCCTGAACCCGCAACTG-----ATCAGCCCTTCAGAAAAGCCTTATGC	24
<i>ycvV</i>	CCGCTCTGATGACCAGCGATTATTTTCAGAAAATCACGCG-----GATGCCGCAATTGATGCCGCAATTG	25
<i>fxsA</i>	ACCAAAAATAGTTGCGCAACACATCTTGAAATTTTCTA-----ATGACCAACAATATAAGCTAAACGCG	26
<i>dnaK</i>	ACAAAAAATTTTGCATCTCCCTTCATGACGTGGTTT-----ACGACCCCATTTAGTAGTCAACCCGC	27
<i>hspG</i>	GAGAGCAGGATCACCTGCTCTCGCTTGAAATTAATCTCC-----TTGTCCCAATCTCTCCACATCCCTG	28
<i>clpP</i>	CGTAACACAAAAAGATTGTTATGCTTGAAATATGCTGATG-----CGTACCAATAACACAGGACTAGC	29
<i>clpB</i>	TTTCACATTAATCTGGTCAATAAACCTTGAAATAATGAGGG-----ATGACCTCAATTTAAATCTCCAGTAGC	30
<i>hslV</i>	CTGCATTCGGCTCGCCCGCGGGGTGAACCCCTCAAAA-----TCCCAATCTATATAATTGCATTAT	31
<i>groES</i>	CAGAAATTTTCTTTTCCCTTGAAAGGGCGAAGCC-----TATCCCAATTTCTCTGGTCAACCAG	32
<i>lon</i>	TTAAATTTTCCCTCTATCTCGCGCTTGAAATGTGGGGAA-----ACATCCCAATATACTGACGTACATG	33
<i>hspX</i>	TGGTGACTTACGCACATATCCAGACTTGAAATAATAGTCG-----CGTAACCAATACGATGTGGGTATCG	34
<i>grpE</i>	TTGATGACAAATGTGAGTGCTTCCCTTGAAACCCCTGAAAC-----TGATCCCAATAATAAGCGAAGTTAG	35
<i>rrmJ</i>	TCGTATTTTGTCTTACGTTGGGATTGAAACGGGTTCATT-----CTACCGGCAATCTCCCATATATCACCC	36
consensus	--GAA-----AT-----T-----T-----C-----CTTGAAA-----G-----G-----CCCCAT-T-----	37

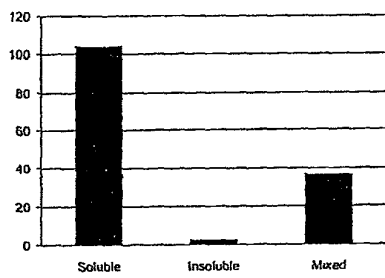
Additional Genes Induced by Translational Misfolding:

<i>yagU</i>	TGATGATGGGAGCTGGTTTATTGCTTTAGTTGTACGATGC-----AAAAACCAATAAGGAAACCTGTGAT	SEQ.ID.NO.: 38
<i>yciS</i>	TTTTCCGAATTTAGCCCTTAAATCAATCAACAATGCGTG-----TGGAATGCCATTTTCGACAGCGCGC	39
<i>ybeD</i>	CTGGTTTGGTTAAAAAATTAAACACCTTGAAAGTGTAATTT-----CCGTCCCAATATACTAAGCATCAGT	40
<i>araE</i>	ATAATCTCAATAATCAACTTAATTTGAAATAATTTGGAATA-----TCCATCACATAACGACATGTCCGAG	41
<i>exbB</i>	TTTGCTGCGTCCCTGCATTCACCAAGTTGAGTATCAAGCTTTT-----TGTCGCCCATGTCCGGGATTCCTGTT	42
<i>yhgI</i>	GCAACCTGAAAAAATGCCCTTTCGTCTTGAAATTGCCCGTGCA-----AGGTCCCAATATGGTATTGTGGAT	43

A. Relative  $\beta$ -galactosidase activity



B. Relative NiHRP absorbance



C. Solubility Scores

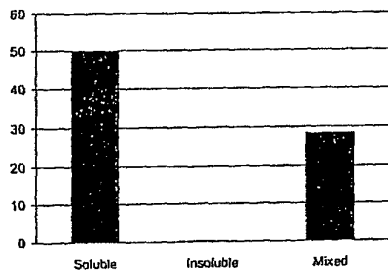


Fig. 2

Summary of Screening Results for 186 *T. maritima* proteins

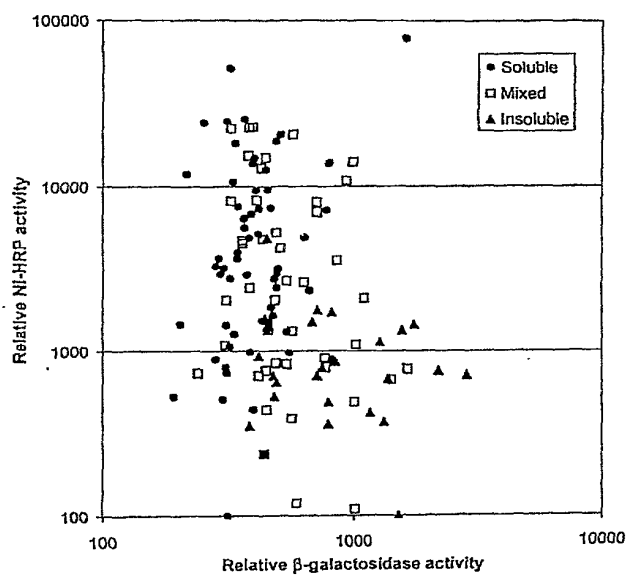


Fig. 3

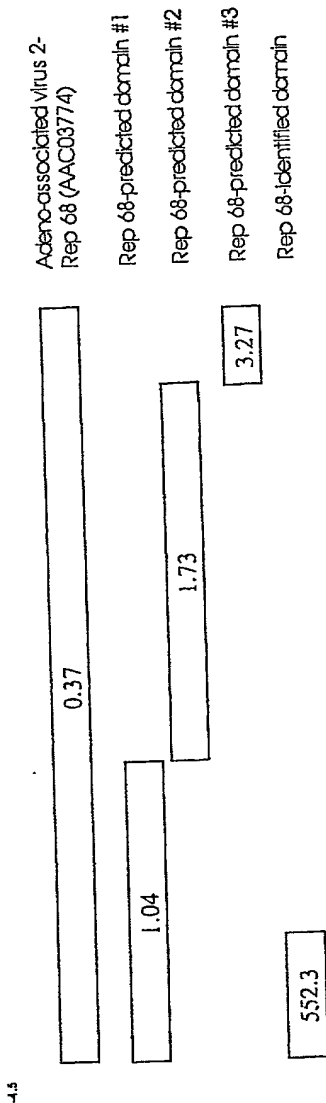
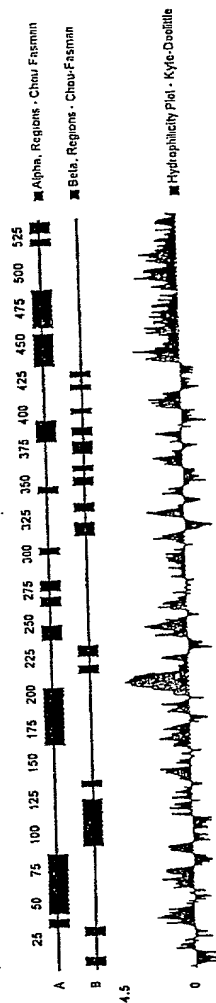


Fig. 4